PATENT COOPERATION TREATY

PCT

REC'D 2 0 APR 2006

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference		FOR FURTHER ACTION		See Form PCT/IPEA/416			
P1126PC10							
International application No.		International filing date	(day/month/year)	Priority date (day/month/year)			
PCT/US05/04630		14 February 2005 (14.02	2.2005)	14 February 2004 (14.02.2004)			
International Patent Classification (IPC) or national classification and IPC							
USPC: 544/27	471/04(2006.01),487/04 /9,280;514/264.1,264.11,	(2006.01); A61K 31/519 (265.1	2006.01)				
Applicant							
IRM LLC							
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.							
2. This	This REPORT consists of a total of \(\frac{1}{2}\) sheets, including this cover sheet.						
3. This	3. This report is also accompanied by ANNEXES, comprising:						
а. [a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:						
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
_	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
ъ	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))						
•	, containing	g a sequence listing a Supplemental Box R	nd/or tables related tl	hereto, in electronic form only, as Listing (see Section 802 of the			
4. This	report contains indicat	ions relating to the follo	wing items:				
\boxtimes		sis of the report					
	Box No. II Pri	ority					
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
		k of unity of invention		İ			
\boxtimes	Box No. V Rea	asoned statement under Article 35(2) with regard to novelty, inventive step or ustrial applicability; citations and explanations supporting such statement					
		tain documents cited	wird onplanations	supporting such statement			
	Box No. VII Cer	tain defects in the interr	national application				
	Box No. VIII Cer	tain observations on the	international applicati	on			
Date of submission of the demand			Date of completion of	f this report			
13 September 2005 (13.09.2005)			27 March 2006 (27 02 2	2006)			
Name and mailing address of the IPEA/ US			27 March 2006 (27.03.2006) Authorized officer				
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents				aprell tout			
P.O. Box 1450 Alexandria, Virginia 22313-1450			Thomas C. McKenzie,	Ph.D. Janue Ford			
Facsimile No. (57)	Facsimile No. (571) 273-3201			72-1600			
rm PCT/IPEA/409 (cover sheet)(April 2005)							

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International	application	No.

PCT/US05/04630

Box No. I Basis of the report
1. With regard to the language, this report is based on:
the international application in the language in which it was filed.
a translation of the international application into <u>English</u> , which is the language of a translation furnished for the purposes of:
international search (under Rules 12.3 and 23.1(b))
publication of the international application (under Rule 12.4(a))
international preliminary examination (under Rules 55.2(a) and/or 55.3(a))
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):
the international application as originally filed/furnished
the description:
pages 1-55 as originally filed/furnished
pages* NONE received by this Authority on pages* NONE received by this Authority on
the claims:
pages 56-61 as originally filed/furnished
pages* NONE as amended (together with any statement) under Article 19
pages* NONE received by this Authority on
pages* NONE received by this Authority on
the drawings:
pages NONE as originally filed/furnished
pages* NONE received by this Authority on pages* NONE received by this Authority on
a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. The amendments have resulted in the cancellation of:
the description, pages
the claims, Nos.
the drawings, sheets/figs
the sequence listing (specify):
any table(s) related to the sequence listing (specify):
4 This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
the description, pages
the claims, Nos
the drawings, sheets/figs
the sequence listing (specify):
any table(s) related to the sequence listing (specify):
f If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US05/04630

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1. Statement						
Novelty (N)	Claims 6 and 9	YES				
	Claims <u>1-5, 7, 8, and 10</u>	NO				
Inventive Step (IS)	Claims 6 and 9	YES				
	Claims 1-5, 7, 8, and 10	NO				
Industrial Applicability (IA)	Claims 1-10	YES				
	Claims NONE	NO				
2. Citations and Explanations (Rule 70.7) Claims 1, 2, 4, and 5 lack novelty under PCT Artic Soedinenii). The compound VI fits formula Ib with R	cle 33(2) as being anticipated by YAKHONTOV (Khimiya Geterotsil $R1 = R2 = phenyl$, $X = N$, $R4 = ethyl$, and $n = 0$.	klicheskikh				

Claims 1, 2, 4, and 5 lack an inventive step under PCT Article 33(3) as being obvious over YAKHONTOV (Khimiya Geterotsiklicheskikh Soedinenii). For reasons cited above.

Claims 1-5, 7, 8, and 10 lack novelty under PCT Article 33(2) as being anticipated by SU 194829 (Ordzhonikidze). The compound with RN 19144-66-2 fits formula Ib with R1 = R2 = phenyl, X = N, R4 = H, and n = 0.

Claims 1-5, 7, 8, and 10 lack an inventive step under PCT Article 33(3) as being obvious over SU 194829 (Ordzhonikidze). For reasons cited above.

Claims 6 and 9 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the compound or use of these claims.

Claims 1-10 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

Form PCT/IPEA/409 (Box No. V) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/US05/04630

Box No	. VIII	Certain	observations	on the	international	application
--------	--------	---------	--------------	--------	---------------	-------------

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 1-5 and 7-10 are objected to as lacking clarity under PCT Rule 66.2(a)(v) because of the claims 7-10 are not fully supported by the description. The description does not disclose the claimed invention in a manner sufficiently clear and complete for the claimed invention to be carried out by a person skilled in the art because: Applicants lack enablement for making any hydrates, solvates, isomers, or prodrugs. Preparing all these derivatives is an unpredictable art.

Claims 7-10 are objected to as lacking clarity under PCT Rule 66.2(a)(v) because of the claims 7-10 are not fully supported by the description. The description does not disclose the claimed invention in a manner sufficiently clear and complete for the claimed invention to be carried out by a person skilled in the art because: inhibitors of the Bcr-abl, Flt-3, Alk, and b-Raf enzymes have no artrecognized therapeutic use.

Form PCT/IPEA/409 (Box No. VIII) (April 2005)